

STEREO MOC Status Report
Time Period: 2013:364 - 2014:005

STEREO Ahead (STA) Status:

1. The following Ground System anomalies/events occurred during this reporting period:

- On day 364, during the DSS-65 support, turbo decoder lock was lost intermittently beginning at 0805z through 0815z. This anomaly resulted in the loss of nine frames of SSR data.
- On day 004, during the DSS-55 support, turbo decoder lock was lost intermittently beginning at 1035z through 1308z. This anomaly resulted in the loss of 1118 frames of SSR data. See DR #N109322 more information.
- On day 003, the MOPS team detected that the assessment data processing for STEREO Ahead had stopped working since Wednesday, January 1st, 2014 due to a disk problem on the archive server vernon. The disk permissions issue was corrected at 003-1700z and the assessment data for days 001-003 were reprocessed on Sunday.

2. The following spacecraft/instrument events occurred during this week:

- On day 364, the SSR science partitions filled as follows:
SWAVES (Part 13) reached 100% full at 2317z for 0.7 hours.
PLASTIC (Part 17) reached 95% full at 2247z for 1.2 hours.
The primary cause was the accumulated shortage of track time throughout the week.
- On day 365, the SSR science partitions filled as follows:
SWAVES (Part 13) remained 100% full at 0000z for 8.7 hours.
PLASTIC (Part 17) remained 95% full at 0000z for 8.7 hours.
The primary cause was the accumulated shortage of track time throughout the week.
- On day 001, the SSR science partitions filled as follows:
SWAVES (Part 13) reached 100% full at 1004z for 2.3 hours.
SWAVES (Part 13) reached 100% full at 1902z for 5.0 hours.
PLASTIC (Part 17) reached 95% full at 2300z for 1.0 hours.
The primary cause was the accumulated shortage of track time throughout the week.

- On day 002, the SSR science partitions filled as follows:
 SWAVES (Part 13) remained 100% full at 0000z for 9.2 hours.
 SWAVES (Part 13) reached 100% full at 2029z for 3.5 hours.
 IMPACT (Part 15) reached 95% full at 0814z for 1.6 hours.
 IMPACT (Part 15) reached 95% full at 2209z for 1.9 hours.
 PLASTIC (Part 17) remained 95% full at 0000z for 9.3 hours.
 PLASTIC (Part 17) reached 95% full at 2125z for 3.6 hours.
 The primary cause was the accumulated shortage of track time throughout the week.
- On day 003, the SSR science partitions filled as follows:
 SWAVES (Part 13) remained 100% full at 0000z for 9.1 hours.
 IMPACT (Part 15) remained 95% full at 0000z for 9.1 hours.
 PLASTIC (Part 17) remained 95% full at 0000z for 9.1 hours.
 The primary cause was the accumulated shortage of track time throughout the week.
- On day 004, the SSR science partitions filled as follows:
 SWAVES (Part 13) reached 100% full at 0512z for 5.8 hours.
 The primary cause was the accumulated shortage of track time throughout the week.
- On day 005, the SSR science partitions filled as follows:
 SWAVES (Part 13) reached 100% full at 0931z for 10.0 hours.
 PLASTIC (Part 17) reached 95% full at 1323z for 6.3 hours.
 The primary cause was the accumulated shortage of track time throughout the week.
- The average daily SSR playback volume for Ahead was 2.0 Gbits during this week.

STEREO Behind (STB) Status:

1. The following Ground System anomalies/events occurred during this reporting period:
 - On day 004, during the DSS-63 support, turbo decoder lock was lost intermittently beginning at 1244z through 1354z. This anomaly resulted in the loss of 1650 frames of SSR data. See DR #N109323 more information.
2. The following spacecraft/instrument events occurred during this week:

- On day 364, PLASTIC conducted real-time commanding at 2215z to reduce the telemetry schedule.
- On day 001, the SSR science partitions filled as follows:
 SWAVES (Part 13) reached 100% full at 1841z for 1.5 hours. The primary cause was the accumulated shortage of track time throughout the week.
- On day 002, the SSR science partitions filled as follows:
 SWAVES (Part 13) reached 100% full at 0631z for 8.5 hours.
 SWAVES (Part 13) reached 100% full at 2027z for 3.5 hours.
 PLASTIC (Part 17) reached 95% full at 1421z for 0.9 hours.
 PLASTIC (Part 17) reached 95% full at 2054z for 3.1 hours.
 The primary cause was the accumulated shortage of track time throughout the week.
- On day 003, the SSR science partitions filled as follows:
 SWAVES (Part 13) remained 100% full at 0000z for 11.5 hours.
 IMPACT (Part 15) reached 95% full at 0415z for 7.6 hours.
 PLASTIC (Part 17) remained 95% full at 0000z for 11.7 hours.
 The primary cause was the accumulated shortage of track time throughout the week.
- On day 004, the SSR science partitions filled as follows:
 SWAVES (Part 13) reached 100% full at 0605z for 6.4 hours.
 IMPACT (Part 15) reached 95% full at 1041z for 1.8 hours.
 PLASTIC (Part 17) reached 95% full at 0747z for 3.1 hours.
 The primary cause was the accumulated shortage of track time throughout the week.
- On day 005, the STEREO BEHIND observatory was demoted into Standby Mode via Autonomy rule #124 at 0946z due to an unhealthy IMU-B (Gyro). During Sunday afternoon's DSS-25 track, additional diagnostic data was downlinked and analyzed by the engineering team. Initial indications are that the X-axis path length controller has failed on IMU-B. The BEHIND observatory remained in standby mode, coarse pointing, with all instruments continuing to collect science data except SECCHI which will be reconfigured by the SECCHI team on Monday. During Sunday evening's DSS-45 track, IMU-A, which was switched off in October of 2012 to preserve lifetime, was powered on and after its performance was verified, it was switched into service at 006-0457z.

- On day 006, During Monday afternoon's DSS-26 track, with IMU-A in use, the SECCHI guide telescope was enabled for use, fine pointing was re-established, and the BEHIND observatory was promoted back to Operational Mode at 2118z. Also, the failed IMU-B was powered off 2118z. The SECCHI team sent real-time commands to re-open the telescope covers and re-commence their science data collection at 2349z.
- The average daily SSR playback volume for Behind was 2.7 Gbits during this week.